TEN00540-00

Operation & Maintenance Manual

WHEEL LOADER **WA320-5**

SERIAL NUMBERS 62038 and up

WARNING

Unsafe use of this machine may cause serious injury or death. Operators and maintenance personnel must read this manual before operating or maintaining this machine. This manual should be kept near the machine for reference and periodically reviewed by all personnel who will come into contact with it.

NOTICE

Komatsu has Operation & Maintenance Manuals written in some other languages. If a foreign language manual is necessary, contact your local distributor for availability.

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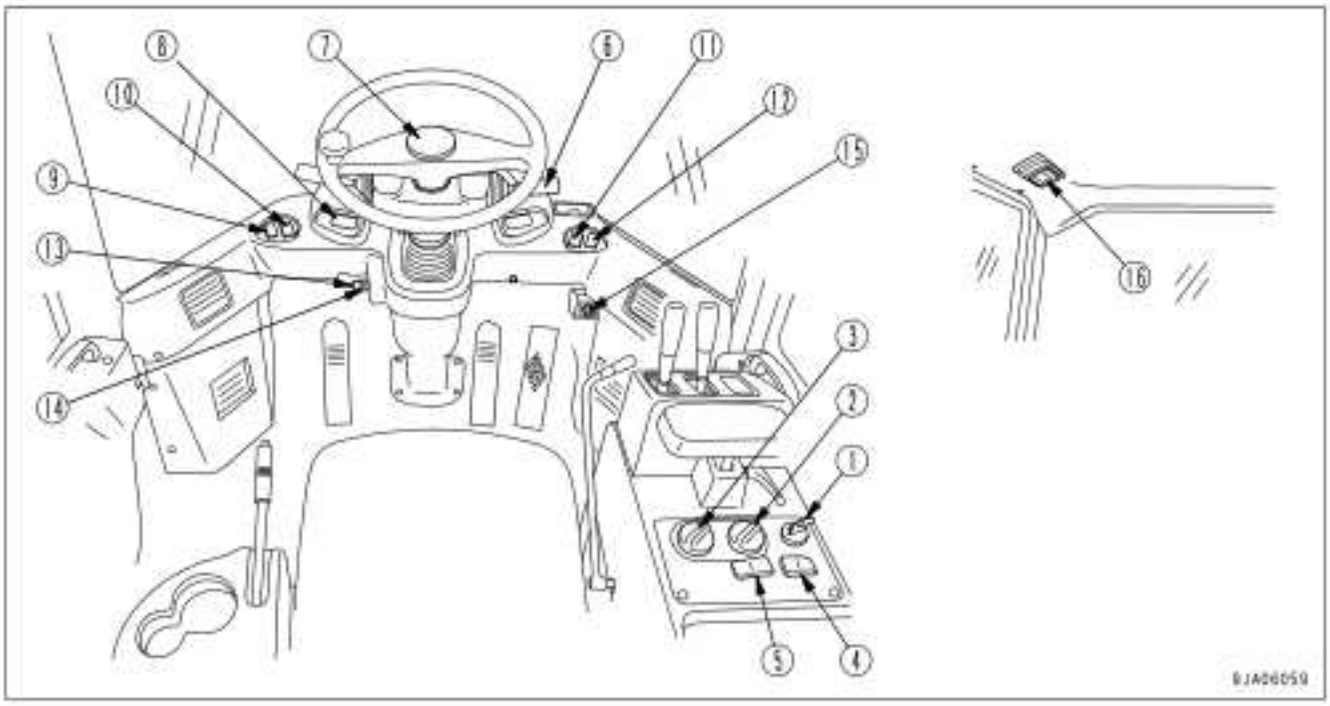
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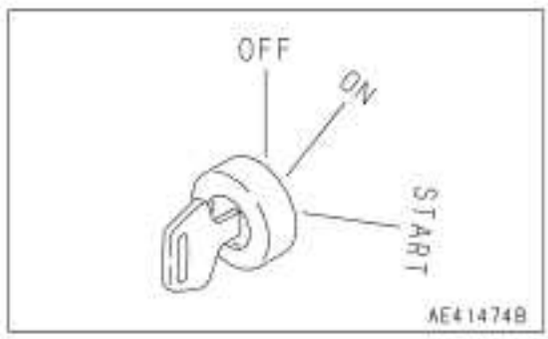
SWITCHES



(1) Starting switch
(2) Speed range selector switch
(3) Variable shift control switch
(4) Traction control switch
(5) E.C.S.S. (Electronic Controlled Suspension System) switch (if equipped)
(6) Lamp switch
(6) Turn signal lever
(6) Dimmer switch
(7) Horn button
(8) Hazard lamp switch
(9) Front working lamp switch
(10) Rear working lamp switch
(11) Monitor panel mode selector switch 1
(12) Monitor panel mode selector switch 2
(13) Front wiper switch
(14) Rear wiper switch
(15) Cigarette lighter
(16) Room lamp switch

STARTING SWITCH

This switch (1) is used to start or stop the engine.



OFF position
The key can be inserted or with drawn. The switches for the electric system are all turned off and the engine is stopped.

ON position
In this position, electric current flows to the charging circuit, lamp circuit, and accessory circuit.
Keep the starting switch key at the ON position while the engine is running.

START position
This is the engine-start position. Keep the key at this position during cranking. Immediately after starting the engine, release the key. It will automatically return to the ON position.

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TRANSPORTATION

When transporting the machine, observe all related laws and regulations, and be careful to assure safety.

TRANSPORTATION PROCEDURE

When transporting the machine, choose the optimum transportation method in reference to the weight and dimensions shown in "SPECIFICATIONS (PAGE 5-2)". Note that machine specifications (weight and dimensions) vary depending on the kind of tire and bucket.

LOADING, UNLOADING WORK WITH TRAILERS

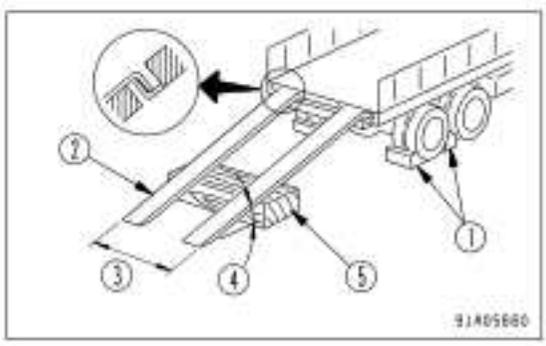
⚠ WARNING

- **When loading or unloading the machine, run the engine at low speed, travel at low speed, and operate slowly.**
- **When loading or unloading the machine, stop the trailer on firm level ground.**
  In addition, keep well away from the road shoulder.
- **Use ramps of ample width, length, thickness, and strength, and install them securely at an angle of less than 15°.**
  When using an embankment, compact the fill soil thoroughly and make sure that the slope face does not collapse.
- **Remove the mud stuck to the undercarriage to prevent the machine from slipping to the side on the ramps.**
  In addition, remove any water, snow, ice, grease, or oil from the ramps.
- **Never change direction on the ramps. There is danger that the machine may tip over.**
  If it is necessary to change direction, return to the ground surface or the trailer platform, correct the direction, and start again.
- **The position of the center of gravity of the machine will change suddenly at the connection of the ramp and trailer, and there is danger of the machine losing its balance. Always drive slowly over this point.**

When loading or unloading, always use ramps or a platform. Proceed as follows.

LOADING

1. Load and unload on firm level ground only.
   Maintain a safe distance from the edge of a road.
2. Apply the brakes on the trailer securely and insert blocks (1) under the tires to hold the trailer in position.
   Set the distance (3) between ramps (2) to match the distance between the left and right tires, and make angle (4) of the ramps a maximum of 15°.
   If ramps (2) sag appreciably under the weight of the machine, put wooden block (5) under the ramps to support them.
3. Determine the direction of the ramp, then slowly load the machine.
4. Load the machine correctly in the specified position on the trailer.

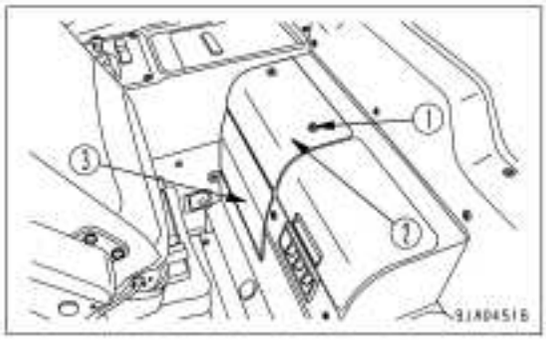


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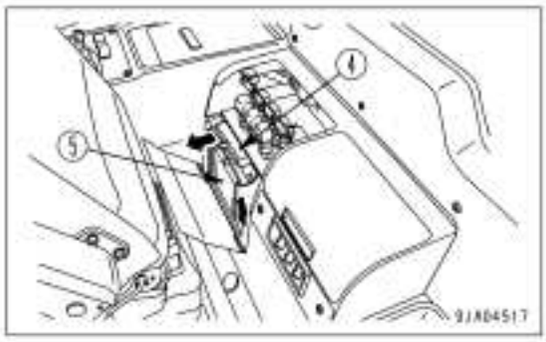
CLEAN ELEMENT IN AIR CONDITIONER RECIRCULATION FILTER

(If equipped)

1. Loosen knob (1), remove filter inspection cover (2), then open filter inspection cover (3).



2. Pull out filters (4) and (5) in the direction of the arrow.
3. Clean with compressed air in the same way as for the fresh air filter.
   If the filter is extremely dirty, rinse it in water.
   After rinsing the filter, dry it completely before installing it again.



CHECKING FUNCTION OF ACCUMULATOR

For details of handling the accumulator, see Section "ACCUMULATOR (PAGE 2-34)".

BRAKE ACCUMULATOR

If the engine stops when the machine is traveling, the oil pressure in the accumulator can be used to apply the brake as an emergency measure.

1. Stop the machine on level ground and lower the work equipment completely to the ground.
2. Apply the parking brake.
3. Start the engine, run it at a mid-range speed for 1 minute, then stop the engine.
4. Turn the starting switch key to the ON position and depress the brake pedal repeatedly.
   - If the brake oil pressure caution lamp does not light up even when the brake is depressed 6 times, the gas pressure in the accumulator is normal.
   - If the brake oil pressure caution lamp lights up when the brake has been depressed 5 or less times, the gas pressure in the accumulator has probably dropped. Please contact your Komatsu distributor to have the accumulator inspected.

REMARK

Carry out the check within 5 minutes after stopping the engine. If the machine is left with the engine stopped, the accumulator pressure will drop and it will be impossible to check the cause of the problem.

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